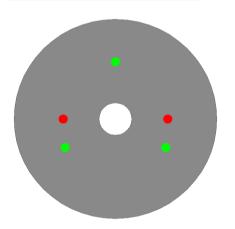


Features VS Benefits

- * The XSA-322 Xicato Pin Fin LED Heat Sinks are specifically designed for luminaires using the Xicato LED engines.
- * Mechanical compatibility with direct mounting of the LED engines to the LED cooler and thermal performance matching the lumen packages.
- * For spotlight and downlight designs from 900 to 2,600 lumen.
- * Thermal resistance range Rth 3.23°C/W.
- * Xicato Thermal Class G , (60° tilt angle, 40°C ambient) .
- * Modular design with mounting holes foreseen for direct mounting of Xicato XSA/ XIM/ XTM modules.
- * Diameter 68.0mm standard height 50.0mm,Other heights on request.
- * Forged from highly conductive aluminum.
 - *The XSA-322 Xicato Pin Fin Heat Sink is standard foreseen from a variety of mounting holes which allow direct mounting of all Xicato Spot and down light LED modules and secondary optics on the Pin Fin LED heat sink.
 - *In this way mechanical afterwork and related costs can be avoided, and lighting designers can standardize their designs on a limited number of LED coolers.
 - *Below you find an overview of Xicato LED modules which standard fit on the XSA-322 Pin Fin LED Heat Sinks.
 - *MingFa performs thermal validation tests on each of the LED modules mounted on the LED cooler and publishes.
 - *This data in the Xicato Cooler thermal validation reports.
 - *For a full overview of avaliable LED coolers for Xicato LEDs, please refer to the Xicato LED cooler overview on.





Xicato LED Modules directly Mounting Options

XSM8027-xxxx; XSM9530-xxxx; XSM8030-xxxx; XSM9540-xxxx; XSM8040-xxxx; XSMV830-xxxx; XSM9577-xxxx:

Direct mounting with 3 screwsM3 x 12mm;

Xicato XSM LED modules name:

Green indicator marks.

Xicato XIM LED modules name :

XIM198027-xxx ; XIM198040-xxx ; XIM09-V9xxxxxx ;

XIM198030-xxx; XIM19V830-xxx; XIM198035-xxx; XIM0980 xxxxxx;

Direct mounting with 3 screws M3 x 20mm; Green indicator marks.

Xicato XTM LED modules:

XTM19-8027-xxx; XTM19-8040-xxx; XTM0995 xxxxxx

XTM19-8030-xxx; XTM19-V830-xxx; XTM19-8035-xxx; XTM09-V9xxxxxx;

Direct mounting with 3 screws M3 x 10mm;

Green indicator marks.

Direct mounting by Zhaga mounting holes with 2 screws M3 x 8mm;

Red indicator marks.





Mounting Options and Drawings & Dimensions

Example: XSA-322-M3-B-1

Example: XSA-322-M3-

1 Anodising Color

B-Black C-Clear Z-Custom

Mounting Options - see graphics for

details Combinations available

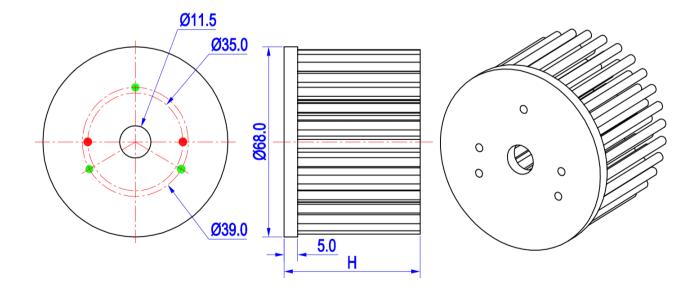
Ex.order code - 12

means option 1 and 2 combined

Notes:

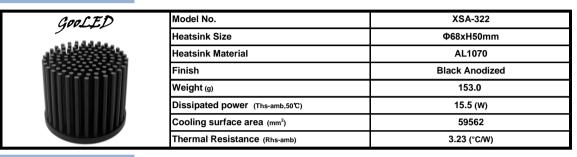
- Mentioned models are an extraction of full product range.
- For specific mechanical adaptations please contact MingfaTech.
- MingfaTech reserves the right to change products or specifications without prior notice.

MOUNTING OPTION	PART NUMBER	THREAD	THREAD DEPTH	THREAD HOLE DISTANCE
N	XSA-322-M3-#-N	М3	6.5mm	39.0mm/ 3-@120°
1	XSA-322-M3-#-1	М3	6.5mm	35.0mm/ 2-@180° (Zhaga Book 3)
2	XSA-322-M3-#-2	M3	Ф11.5mm	Through-Hole





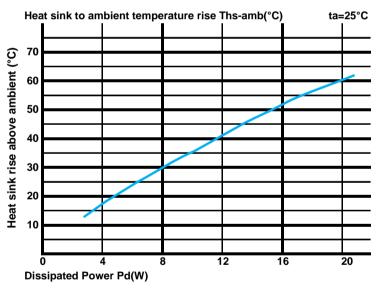
The product deta table



The thermal data table

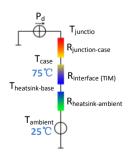
- * Please be aware the dissipated power Pd is not the same as the electrical power Pe of a LED module.
- *To calculate the dissipated power please use the following formula: $Pd = Pe \times (I \eta L)$.
- Pd Dissipated power ; Pe Electrical power ; $\eta L = \text{Light effciency of the LED module}$;

Pd = Pe x (1-ηL)		Heat sink to ambient thermal resistance Rhs-amb (°C/W)	Heat sink to ambient temperature rise Ths-amb (°C)	
		XSA-322		
Dissipated Power Pd(W)	4.0	4.25	17.0	
	8.0	3.75	30.0	
	12.0	3.42	41.0	
	16.0	3.25	52.0	
	20.0	3.00	60.0	



- *The aluminum substrate side of the package outer shell is thermally connected to the heat sink via TIM (Thermal interface material).
- $\label{thm:mingFa} \mbox{MingFa recommends the use of a high thermal conductive interface between the LED module and the LED cooler.}$

 $Either thermal\ grease, A\ thermal\ pad\ or\ a\ phase\ change\ thermal\ pad\ thickness\ 0.\,I-0.\,I\,5mm\ is\ recommended.$



- *Thermal resistance is a heat property and a measurement of a temperature difference by which an object or material resists a heat flow. Geometric shapes are different, the thermal resistance is different. Formula: $\theta = (Ths Ta)/Pd$
- θ Thermal Resistance [°C/W]; Ths Heatsink temperature; Ta Ambient temperature;
- *The thermal resistance between the junction section of the light-emitting diode and the aluminum substrate side of the package outer shell is $R_{\text{junction-case}}$, the thermal resistance of the TIM outside the package is $R_{\text{interface}}(TIM)$ [°C/M], the thermal resistance with the heat sink is $R_{\text{heatsink-ambient}}$ [°C/M], and the ambient temperature is T_{ambient} [°C].
- *Thermal resistances outside the package $R_{interface}$ (TIM) and $R_{heatsink-ambient}$ can be integrated into the thermal resistance $R_{case-ambient}$ at this point. Thus, the following formula is also used: $T_{iunction} = (R_{iunction-case} + R_{case-ambient}) \cdot Pd + T_{ambient}$

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